



SAFETY DATA SHEET SODIUM NITRATE

Product No: 002/05-US

Section 1 : Identification of the Substance and of the Company

Product Name : Sodium Nitrate
Use of the Product : Product for agriculture or industrial use.
Supplier : SQM Northamerica Corporation
Address : 2727 Paces Ferry Road
Building Two, Suite 1425
Atlanta, GA 30339
Telephone : (770) 916 9400
Fax : (770) 916 9401
e-mail : product_safety@sqm.com
Emergency Number : (800) 424 9300 (CHEMTRAC)

Section 2 : Hazards Identification

Emergency Overview

Oxidizer. Contact with combustible material will not cause spontaneous ignition. However, substance will enhance an existing fire (Class 1 oxidizer according to NFPA).

NFPA Ratings

Health : 1
Flammability : 0
Reactivity : 1
Special : Oxidizer

Potential Health Effects

Inhalation : Inhalation of dust irritates the respiratory tract. Symptoms may include coughing.
Ingestion : Hazardous in case of ingestion.
Skin Contact : May cause irritation, specially with wet skin.
Eye Contact : May cause irritation, eye redness, itching and pain.

Section 3 : Composition/Information on Ingredients

Chemical Name : Sodium Nitrate
CAS No. : 7531-99-4
EINECS No. : 231-554-3
Molecular Weight : 64,99
Formula : NaNO_3
Content : > 96%



Section 4 : First Aid Measures

General Information

In case of persisting adverse effects consult a physician

Specific Measures

Inhalation	Remove to fresh air. Get medical attention for any breathing difficulty.
Ingestion	Induce vomiting. Never give anything by mouth (oral) to an unconscious person.
Skin Contact	In case of irritation, remove clothing. Wipe excess from skin. Wash with soap and water for at least 5 minutes.
Eye Contact	Flush eyes with plenty of water, lifting lower and upper eyelids occasionally.

Section 5 : Firefighting Measures

Fire	Non combustible, but contact with combustible substances under a fire will increase combustion rate. For thermal decomposition products, refer to Section 10.
Extinguishing Media	
- Suitable	Any mean suitable for extinguishing surrounding fire. Spray water for small fires. For large fires flood with abundant water.
- Not Suitable	-
Protective equipment	Refer to section 8.

Section 6 : Accidental Release Measures

Personal Precautions	Ventilate the area. Use personal protective equipment (Section 8).
Environmental Precautions:	Do not discharge into drains. Avoid surface and ground water contamination.
Methods for Cleaning Up/Taking Up	: Pick up the product mechanically and store in suitable containers for recovery or disposal.

Section 7 : Handling and Storage

Handling	
Special Procedures	None
Safe Handling Procedures	Minimize dust generation. Avoid contact with eyes and skin.
Special Advice	See Section 10.



Storage

Special Requirements

Reseal carefully any opened container and set upright to avoid leakages. Keep the product in the original containers.

Storage Conditions

Keep away from flammable substances. Do not store with combustibles, reducing agents. Keep containers tightly closed in well ventilated and cool place.

Section B : Exposure Controls / Personal Protection

Exposure Limits

Suggested according to US regulations: 15 mg/m³ (total dust) ; 5 mg/m³ (respirable fraction)

Exposure Controls

Local exhaust ventilation to keep low dust environment.

Personal Protective Equipment

Respiratory

Dust mask if necessary, i.e. in case of dust emission or dusty environments

Eyes

Safety goggles required all the time.

Hands

Nitrile rubber gloves (over 0.11 mm thickness, > 480 min breakthrough time).

Hygiene Measures

Do not drink, eat or smoke during product manipulation. Keep away from foodstuffs and beverages. Wash hands before breaks and after work.

Personal Protective Equipment

Wear dust mask if necessary, nitrile rubber gloves and chemical safety goggles

Hygiene Measures

Do not drink, eat or smoke during product manipulation. Keep away from foodstuffs and beverages. Wash hands before breaks and after work.

Section 9 : Physical and Chemical Properties

Physical Form	: Solid, prill or crystalline
Color	: White
Odor	: Odorless
pH	: 6-8 (5% aqueous solution)
Melting Point	: 306°C
Boiling Point	: not applicable



Flash Point : not applicable
Flammability : not flammable
Explosive Properties : not applicable
Thermal Decomposition : > 550°C
Specific Gravity : 2.26 g/mL
Water Solubility : 480 g/L (20 °C)
Partition Coefficient (log P_{ow}) : not applicable

Section 10 : Stability and Reactivity

Stability : Stable under normal storage and temperature conditions.

Conditions to avoid : Keep away from flammable, combustible and reducing substances.

Hazardous Decomposition Products : Nitrous oxides, sodium nitrite and sodium oxide by thermal decomposition.

Section 11 : Toxicological Information

Acute Data
Oral LD_{50} (rat) : > 2000 mg/Kg
Dermal LD_{50} (rat) : no data available
Inhalation LC_{50} : no data available

Short-term Effects
Inhalation may cause irritation of the respiratory tract. Can cause skin and eye irritation.

Chronic Effects
No adverse effects observed on developmental toxicity. Equivocal carcinogenic agent according to animal tests. Mutagenic and reproductive hazard at very high level doses according to animal tests.

Section 12 : Ecological Information

General
Do not discharge into drains and water or public depositories.

Environmental Fate
Sodium Nitrate dissociates into sodium and nitrate ions. Nitrates may be absorbed by plants and converted into organic nitrogen, whereas sodium binds to clay particles in the soil.



Zooplankton Toxicity	Fish Toxicity
Species : <i>Daphnia magna</i>	Species: Rainbow trout
LC ₅₀ : 3581 mg/l (48 h)	LC ₅₀ : 1658 mg/l (96 h)

Not acutely toxic to aquatic organisms.

Mobility

Predicted Distribution: Water, 45% ; Soil, 54.7%

Section 13 : Disposal Considerations

Residues	: Licensed professional waste disposal service is required. Disposal of waste according to all federal, state and local regulations.
Empty Packaging	: Empty containers may be reused after appropriate cleansing. Packaging that can not be cleaned should be disposed in agreement with the regional waste disposal company.

Section 14 : Transport Information

Rail & Road (DOT) – Sea (IMDG Code) – Air (IATA)	
Proper Shipping Name	Sodium Nitrate.
UN Number	1498
Class	5.1
Packaging Group	III
Hazard Label	Oxidizing

Section 15 : Regulatory Information

US Classification

Indication of Danger	Oxidizing.
Risk statements	Contact with combustible material under a fire will enhance combustion
Safety Statements	Keep away from combustible material. Avoid contact with skin and eyes
SARA	Not listed
TSCA	Listed
Prop 65 (California)	Not listed

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Section 16 : Other Information

This MSDS complies with 29 CFR part 1910 subpart Z and ANSI Standard Z400.1-2004.

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Univar USA Inc Material Safety Data Sheet

For Additional Information contact MSDS Coordinator during business hours, Pacific time: (425) 889-3400

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